

BENEDIKTOV, I.A.---(continued) Card 4.

[Agricultural encyclopedia] Sel'skokhoziaistvennaya entsiklopediya.  
Izd.3-e, perer. Moskva, Gos. izd-vo selkhoz. lit-ry. Vol.5. [T-IA.]  
1956. 663 p. (MLRA 9:9)  
(Agriculture--Dictionaries and encyclopedias)

KONYUSHKOV, N.S., kandidat sel'skokhozyaystvennykh nauk; MOVSISYANTS, A.P.,  
kandidat sel'skokhozyaystvennykh nauk; YELUKOV, M.P., kandidat  
sel'skokhozyaystvennykh nauk, redaktor; YEREMIN, G.P., kandidat  
sel'skokhozyaystvennykh nauk, redaktor; SMELOV, S.P., doktor biologicheskikh  
nauk, professor; TSATSENKIN, I.A., doktor biologicheskikh  
nauk, professor; MOGOZOV, D.N., redaktor; HALLOD, A.I., tekhnicheskiy  
redaktor

[Meadow and pasture manual] Spravochnik po senokosam i pastbishcham.  
Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 703 p. (MLRA 9:11)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut kormov.  
(Pastures and meadows)

Card 1/2

USSR/Meadow Cultivation - The Meadow.

K-1

Abs Jour : Referat Zhur - Biologiya, No 16, 25 Aug 1957, 69147

Author : Smelov, S.P.

Inst :

Title : Some Scientific Tasks in Solving Problems of Improving  
Natural Fodder Estates.

Orig Pub : Yubil. sb. nauch. tr., posbyashch, 70-letiyu Poltavsk.  
op. st. Ukr. fil. Vses. n.-i. in-ta, kormov. Kiev.  
Gossekhozizdat, USSR, 1956, 141-154

Abstract : Taking into account the experience of meadow-cultiva-  
ting science in the USSR, the author recommends special  
attention to the following problems: making a record of  
the meadow and pastures; a wider utilization of perennial  
meadow grasses (orchard grass, canary grass, etc.) to  
build a green cover; required ecologic conformity bet-  
ween needs of cultivated plants and the complex of natu-  
ral conditions inherent in the type of meadow to be im-  
proved;

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USSR / Meadow Cultivation.

L

abs Jour: Ref Zhur-Biol., No 7, 1958, 29627.

Author : Smelov, S.P., Farmakovskaya, O.F.

Inst : The All-Union Institute for Food Stuffs.

Title : Increasing the Proportions of Leguminous Components in Meadow Grass Mixtures.  
(O povyshenii uchastiya bobovykh komponentov v lugovykh travosmesyakh).

Orig Pub: Vestn. s.-kh. nauki, 1957, No 4, 117-120.

Abstract: Experiments made by the All-Union Scientific Research Institute for Food Stuffs in 1949-1954 have established that by increasing the leguminous plants in grass mixtures the nitrogen food of grain grasses is considerably enhanced and does away with the need of applying nitrogenous

Card 1/2

79

RABZIN, V. A., doktor biologicheskikh nauk; SMELOV, S. F., doktor biologicheskikh nauk.

Meadow rotations. Zemledelie 5 no.8:77-84 Ag '57. (MLRA 10:9)  
(Pastures and meadows)

SMELOV, S.P.; TATARINOVA, N.K.

Translocation of P<sup>32</sup> in meadow fescue during the dying off of shoots.  
Fiziol. rast. 5 no.3:280-282 By-Je '58. (NIRA 11:6)

1. Institut kormov im. V.R. Vil'yamsa, st. Iugovaya Savelovskoy  
zhel.dor.

(Fescue grass)  
(Plants, Motion of fluids in)  
(Tracers (Biology))

SMELOV, S.P.

Causes of variations in the tillering of meadow grasses during their  
first and subsequent years of life [with summary in English]. Bot.  
zhur. 43 no.6:774-780 Je '58. (MIRA 11:7)  
(Grasses)

SMELOV, Sergey Petrovich, prof., doktor biolog.nauk; MOVSISYANTS, Agaron Pogosovich, kand.sel'skokhoz.nauk; TULIN, N.S., red.; GUREVICH, M.M., tekhn.red.

[Improvement and correct use of meadows and pastures] Uluchshenie i pravil'noe ispol'zovanie lugov i pastbishch. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1959. 87 p. (MIRA 13:6)  
(Pastures and meadows)

SMELOV, V.A.

Underwater scraper unit. Transp. stroi. 12 no.9:53 S '62.  
(MIRA 16:2)

1. Instruktor Dal'nevostochnoy nauchno-issledovatel'skoy  
stantsii Orgtransstroya.  
(Dredging machinery)

KOZEROVSKIY, I.N., inzh.; SMELOV, V.A., inzh.

Erection of breakwaters with the use of tetrapods. Transp.stroi.  
13 no.9:32-33 S '63. (MIRA 16:12)

ZOLOTAREV, N.D.; NORKIN, I.M.; SMELOV, V.D.

Graphs of increasing volumes used in designing and planning strip  
mining operations. Zap. LGI 49 no.1:74-79 '64.

(MIRA 18:8)

5(2)

AUTHORS: Shevchenko, V. E., Smelov, V. S.

SOV/39-3-5-5/27

TITLE: The Influence of Mono- and Dibutyl Phosphates on the Separation of Plutonium by Tributyl Phosphate (Vliyanie mono- i di-butylfosfato na ekstraktsiyu plutoniya tributylfosfatom)

PERIODICAL: Atomnaya energiya, 1956, Vol 5, Nr 5, p. 542-545 (USSR)

ABSTRACT: The distribution coefficients for mono- and dibutyl phosphate (MBPh and DBPh) between the organic phase, which contained tributyl phosphate in hydrated petroleum, and water were determined. The same coefficients were also determined between the organic phase and a solution of nitric acid, a lye, and a soda solution. The experimentally determined coefficients are shown in form of a table and a graph. The determination of the distribution of plutonium was carried out in glass cups. The time required for establishing equilibrium was experimentally determined as amounting to 30 minutes, and settling time was found to be 24 hours. The plutonium was found to be quadrivalent. Concentration: 50 mg/l. The plutonium was detected with the aid of its  $\alpha$ -radiation,

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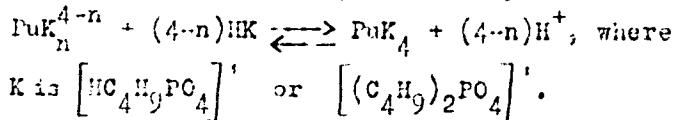
SOV/99-5-5-5/27

The Influence of Mono- and Dibutyl Phosphates on the Separation of Plutonium by Tributyl Phosphate

DBPh was precipitated by means of iron nitrate, and analysis was calorimetrically carried out to the end. MBPh was precipitated by means of nitrate of thorium, dissolved, and titrated with trylon B.

The sharp increase of the distribution coefficient of plutonium observed during the tests carried out may be explained by the inclusion of MBPh and DBPh in tributyl phosphate. If MBPh and DBPh are both included within tributyl phosphate, a summated concentration that is below 0,00015 mol/l exerts no influence upon the extraction of plutonium.

Between the plutonium nitrate and MBPh and DBPh an ion-interaction mechanism is probably active (as suggested by reference 5) according to approximately the following scheme:



There are 2 figures, 6 tables, and 9 references, 5 of which are Soviet.

Card 2/3

21(1)

AUTHORS: Shevchenko, V. B., Snelov, V. S. SOV/89-6-2-5/28

TITLE: On the Mechanism of Plutonium Nitrate Extraction by Mono- and Dibutylphosphates (K voprosu o nekhanizme ekstraktsii nitrata plutoniya mono- i dibutilfosfatami)

PERIODICAL: Atomnaya energiya, 1959, Vol 6, Nr 2, pp 140 - 144 (USSR)

ABSTRACT: The mechanism of plutonium extraction by monobutylphosphate (MBP) and dibutylphosphate (DBP) is explained. Furthermore the mechanism of plutonium nitrate extraction by MBP and DBP is investigated with an ionic concentration of 6. In paper 1 the experiments are described more in detail. The following method of analysis was applied: After the solution had settled for 24 hours the plutonium content was determined by counting the  $\alpha$ -particles. Self-absorption was taken into account in solutions containing much  $\text{LiNO}_3$ . There was an error of 5-7% in the determination of the results of two simultaneously investigated samples. The analysis of MBP and DBP was carried out according to the method mentioned in reference 1. MBP and DBP were determined with an accuracy of 7-12%. The extraction process may be represented in the general form

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On the Mechanism of Plutonium Nitrate Extraction by Mono- SOV/89-6-2-5/28  
and Dibutylphosphates



Liquid      Organic      Organic Liquid  
Phase      Phase      Phase

where R denotes either

$[\text{H}(\text{C}_4\text{H}_9)_2\text{PO}_4]$ ' or  $[(\text{C}_4\text{H}_9)_2\text{PO}_4]$ ' and n may adopt the values 1, 2, 3 and 4. Since the equilibrium concentration of plutonium in the aqueous solution is smaller than  $2 \cdot 10^{-4}$  mol/l, the formation of atomic compounds must be neglected. The equilibrium constant of the above-mentioned reaction has the form:

$$K_p = \frac{c_{\text{PuR}_4} \cdot c_{\text{H}^+}^{4-n}}{c_{\text{PuR}_n}^{4-n} \cdot c_{\text{HR}}^{4-n}}$$

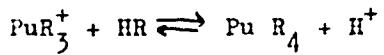
The indices denoting the phases are not mentioned here. The plutonium distribution coefficient E may be determined according to the equation:

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On the Mechanism of Plutonium Nitrate Extraction by Mono- SOV/89-6-2-5/28  
and Dibutylphosphates

$$E = \frac{c_{PuR_4}}{c_{PuR_n}^{4-n}}$$

Since the effect of  $\text{NO}_3^-$ -ions on the plutonium distribution coefficient is insignificant, the possibility of complex formation was not taken into account. The presence of complex compounds with the ions  $R'$  and  $[\text{NO}_3]'$  and the ions  $R'$  and  $[\text{OH}]'$  was not taken into account either. It was demonstrated in an earlier paper that the dependence of the plutonium distribution coefficient on the KEP, DBP and  $\text{H}^+$  concentration may be represented by a straight line with  $t_{\text{ga}} = 1$ . According to these results the formula introductory mentioned may be expressed as follows:



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On the Mechanism of Plutonium Nitrate Extraction by  
Mono- and Dibutylphosphates

SOV/89-6-2-5/28

Thus it is demonstrated that the complex formation in the liquid phase is also due to the extracting agent. The equilibrium constant of the interaction of plutonium nitrate with MBP is  $(1.5 \pm 0.25) \cdot 10^3$ , and  $(6.15 \pm 0.85) \cdot 10^3$  with DBP. There are 5 figures, 4 tables, and 3 references, 2 of which are Soviet.

SUBMITTED: May 7, 1958

Card 4/4

22485  
S/186/61/003/003/003/018  
E071/E435

21.3.260

AUTHORS: Shevchenko, V.B., Fedorov, I.A. and Smelov, V.S.  
TITLE: The Influence of Temperature on Extraction With Mixed Solvents of Uranyl Nitrate and Tetravalent Plutonium  
PERIODICAL: Radiokhimiya, 1961, Vol.3, No.3, pp.256-260

TEXT: The influence of temperature on the extraction of uranyl nitrate and tetravalent plutonium from 2M nitric acid solution with a mixture of diisoamyl ester of phosphoric acid (DAPH) and tertiary butyl ester of phosphoric acid (TBPh) in xylene was investigated. In the case of extraction of uranyl nitrate, the concentration of DAPH in the mixture was  $1.9 \times 10^{-3}$  M and that of TBPh was  $6.3 \times 10^{-3}$  M; and for extraction of Pu(IV),  $2.1 \times 10^{-4}$  M and  $2.1 \times 10^{-2}$  M respectively. The concentration of uranyl nitrite in the starting solution was  $3.15 \times 10^{-4}$  M, of Pu(IV),  $1.05 \times 10^{-4}$  M. The concentration of nitric acid in starting solutions was 2M. The limits of concentrations of TBPh and DAPH in the organic solvent and of nitric acid in water were chosen in order to obtain a maximum synergistic effect. The extraction experiments were done in thermostatically controlled ( $\pm 0.1^\circ\text{C}$ ) separating funnels with

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The Influence of Temperature ...

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10 ml starting volumes of phases and within the temperature range of 10 to 60°C. Uranium and plutonium were determined in both phases by the radiometric method. The valency state of plutonium was spectrophotometrically controlled. The coefficient of distribution  $\alpha$  was determined as the ratio of analysed concentrations of the substance investigated in the organic and aqueous phases. The synergetic effect of the mixture was defined as a ratio of the coefficient of distribution on extraction with a mixture to the sum of coefficients of distribution of the substance investigated on extraction with each individual solvent. The temperature dependence of the distribution of uranyl nitrate and tetravalent plutonium on extraction with the mixture of DAPh and TBPh (curve 1), with DAPh (curve 2) and TBPh (curve 3) is shown in Fig.1 (for uranyl nitrate) and Fig.2 (for tetravalent plutonium). Using determined values of coefficients of distribution on extraction with individual and mixed solvents, the equilibrium constants for the reaction of formation of respective mixed complexes were determined. On the basis of the experimental results obtained, it is concluded that the extractability of uranyl nitrate and plutonium (IV) with a mixture

Card 2A4-5

The Influence of Temperature ...

S/186/61/003/003/003/018  
E071/E435

of DAPh and TBPh in xylene decrease with increasing temperature from 10 to 60°C. With increasing temperature from 10 to 60°C, the equilibrium constant for the formation of mixed complex  $\text{UO}_2[(\text{C}_5\text{H}_{11}\text{O})_2\text{POO}]_2\text{TBPh}$  decreased from  $2.20 \times 10^4$  to  $0.87 \times 10^4$ , while the constant for the mixed complex  $\text{PU}[(\text{C}_5\text{H}_{11}\text{O})_2\text{POO}]_4\text{TBPh}$  changes only a little. There are 2 figures, 2 tables and 8 references: 5 Soviet-bloc and 3 non-Soviet-bloc. The three references to English language publications read as follows: H.Irving, D.Eddington, Proc.Chem.Soc., 11, 360 (1959); T.Sato, Gall.Bull.Inst.Nucl.Sci., 7, 43 (1957); Z.Disdar, J.Inorg.Nucl.Chem., 6, 334 (1958).

SUBMITTED: May 31, 1960

Card 3/4 }

S/076/61/006/003/017/024  
B121/B208

AUTHORS: Shevchenko, V. B., Smelov, V. S.

TITLE: Extraction of nitrates of cerium, europium, and yttrium by dibutyl phosphate

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 6, no. 3, 1961, 732-737

TEXT: Extraction of cerium, europium, and yttrium by dibutyl phosphate was studied for the purpose of separating cerium and europium from yttrium. Thiophene-free benzene was used as solvent for dibutyl phosphate. Equal volumes of the rare earth - nitrate solution and the organic phase were allowed to stand at 20°C for 15 min until equilibrium was attained. The separations were observed by means of the radioactive tracers Ce<sup>144</sup>, Y<sup>90</sup>, and Eu<sup>152</sup> and Eu<sup>154</sup>. The distribution coefficients of trivalent cerium, europium, and yttrium were studied as a function of their concentrations; the distribution coefficients of cerium and yttrium were found to be practically independent of the concentrations. This fact confirms that cerium and yttrium do not form polymers at 0.1-2 moles/l HNO<sub>3</sub>. The de-

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S/078/61/006/003/017/022  
B121/B208

Extraction of nitrates of...

pendence of the distribution coefficients of trivalent cerium, yttrium and europium on the dibutyl-phosphate concentration was studied at  $\text{HNO}_3$  concentrations of 0.1 and 0.5 mole/l. It was found that the distribution coefficient decreases with reduced dibutyl phosphate concentration in the organic phase, but, increases with decreasing  $\text{HNO}_3$  concentration. A  $\text{HNO}_3$  concentration of 0.1 mole/l in the aqueous phase, and a dibutyl phosphate concentration of 0.1 mole/l in the organic phase are recommended as the optimum for the separation of cerium and europium from yttrium. Under these conditions, the distribution coefficients of the systems yttrium - cerium and yttrium - europium are  $4 \cdot 10^2$  and  $5.5 \cdot 10^2$ , respectively. The authors mention the possibility of separating rare elements into the cerium and yttrium groups by extraction with dibutyl phosphate. The equilibrium constants of the reactions of cerium and yttrium with dibutyl phosphate were calculated to be  $(3.5 \pm 0.5) \cdot 10^{-1}$  for cerium and  $(1.33 \pm 0.1) \cdot 10^2$  for yttrium V.V. Fomin and Ye. P. Mayorova are mentioned. There are 3 figures,

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Extraction of nitrates of...

S/378/61/006/003/017/024  
B121/B208

2 tables, and 40 references: 13 Soviet-bloc.

SUBMITTED: August 11, 1959

Card 3/3

SHEVCHENKO, V.B.; SM. LOV, V.S.

Effect of temperature on the distribution of mono- and dibutyl  
phosphoric acids between benzene and water. Ekstr., teor., prim., -  
app. no. 2:58-62 '62. (MIRA 15:9)  
(Phosphoric acid) (Solvents)

SHEVCHENKO, V.B.; SMOLOV, V.S.; STRAKHOVA, A.V.

Synergism in the extraction of uranyl nitrate. Ekstr.; teor.,  
prim.,app. no.2:179-189 '62. (MIRA 15:9)  
(Uranyl nitrate) (Extraction (Chemistry))

SHEVCHENKO, V.B.; SMELOV, V.S.

Effect on mono- dibutyl phosphates on the extraction of uranium (<sup>77</sup>U)  
by tributyl phosphate. Ekstr.; teor., prim., app. no.2:219-226 '62.  
~~SECRET~~ (MIRA 15:9)  
(Uranium) (Butyl phosphate)

SPINOV, ERG. V.B.; SHELQV, V.S.

Problem of the extraction of fission products by mono- and  
dibutyl phosphates. Ekstr., teor., prin., app. no. 2:257-263 '62.  
(MIRA 15:9)

(Fission products) (Butyl phosphate)  
(Extraction (Chemistry))

40010  
S/078/62/007/007/012/013  
B119/B101

AUTHORG: Shevchenko, V. B., Smelov, V. S., Strakhova, A. V.

TITLE: Extraction of uranium by a binary reagent mixture

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 7, no. 7, 1962, 1736 - 1742

TEXT: The authors studied extraction of uranyl nitrate from aqueous solutions by binary mixtures of diisoamyl ester of phosphoric acid (I), mono-isoamyl ester of methyl phosphinic acid (II)(acid components), tributyl phosphate (III), diisoamyl ester of methyl phosphinic acid (IV), and tri-butyl phosphinic oxide (V)(neutral components). The diluents used for the organic phase were carbon tetrachloride, chloroform, tridecane, octane, benzene, xylene, tri-1, 2, 3-propyl benzene, as well as the high-boiling fraction of hydrogenated kerosene (both in its crude state and rehydrogenated and redistilled). U<sup>233</sup> was used in concentrations of ~10<sup>-4</sup> moles/liter. The method of investigation was as described by the authors earlier.(Sb. po ekstraktsii, (Collection on Extraction) Atomizdat, 1962). Results: for the extraction with II + III the maximum values of the synergistic extraction effect S were shown to occur with 8 to 10 times as much of II present in benzene solution as required to form

Card 1/3

S/078/62/007/007/012/013  
B119/B101

Extraction of uranium by a ...

(1954). H. Irving, D. N. Edgington. Proc. Chem. Soc., 11, 360 (1959).

SUBMITTED: June 1, 1961

Copy 3/3

SMELOV, V.S., STRAKHOVA, A.V.

Extraction of oxalic acid with trioctylamine. Radiokhimiia 5  
no.4:509-511 '63. (MIRA 16:10)

(Oxalic acid) (Trioctylamine)

KARPACHEVA, S. M.; RYZHOV, M. N.; SMELOV, V. S.; et al

Extraction of Some Elements with Phosphorus-Containing Monobasic Acids."

report submitted for 2nd Intl Conf, Peaceful Uses of Atomic Energy, Geneva,  
31 Aug-9 Sep 64.

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651420015-6

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APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651420015-6"

SMELOV, V.S.; VENKROVSKAYA, Yu.I.

Complex formation study of tetravalent cerium with nitrate ions  
by the extraction method. Zhur. neorg. khim. 9 no.12:2775-2778  
(MIRA 18:2)  
D '64.

SHELOV, V.S.; STEAKHOVA, A.V.

Extraction of uranium by a mixture tricetylamine -  
diisoamylphosphoric acid. Radichimia 7 no.6:718-719  
'65. (KIPR 19:1)

MARCHUK, G. I., PUPKO, V. Y., POGUDALINA, E. L., SMELOV, V. V., TUTEREV,  
I. P., PLATONOVA, S. P. and DRUZHININA, G. I.

"Nuclear Reactor Physical Problems and Calculation Methods."

paper to be presented at 2nd UN Intl. Conf. on the peaceful uses of Atomic  
Energy, Geneva, 1 - 13 Sep 58.

- SMELOV, U.V.
- 21(a) PHASE I BOOK EXPLOITATION 507/2503
- International Conference on the Peaceful Uses of Atomic Energy.  
2nd, Geneva, 1958.
- Soviet Academy of Sciences, Federation Peacetime, Federation Peacetime, 1. J. Fedotova, General Secretary, Member, Ukrainian SSR Academy of Sciences, and V.S. Sosulin, Corresponding Member, USSR Academy of Sciences, and V.S. Sosulin, Corresponding Member, USSR Academy of Sciences, and V.S. Sosulin, Doctor of Physical and Mathematical Sciences; Ed.: A.P. Alyabyev; Tech. Ed.: Ye. I. Mazel.
- PURPOSE:** This book is intended for scientists and engineers engaged in reactor designing, as well as for professors and students of higher technical schools where reactor design is taught.
- CONTENTS:** This is the second volume of a six-volume collection on the peaceful uses of atomic energy. The six volumes contain the reports presented by Soviet scientists at the Second International Conference on Peaceful Uses of Atomic Energy, held from September 1 to 11, 1958 in Geneva. Volume 2 consists of three parts. The first is devoted to atomic power plants under construction in the Soviet Union; the second to experimental and research reactors; the third, which is predominantly theoretical, to problems of nuclear reactor physics and construction engineering. Yu. I. Borzakov is the science editor of this volume. See 507/2081 for titles of all volumes of the set. References appear at the end of the articles.
- Borzakov, V.I., V.S. Dikarev, M.B. Yefimov, and Yu. I. Saltykov. Measuring Neutron Spectra in Uranium Water Lattices (Report No. 2152) 546
- Breskin, A.K., B.G. Dubrovin, K.M. Lantsov, Yu. Yu. Glazkov, N.E. Gocharov, A.V. Kamarev, L.A. Gorasova, V.V. Vavilov, Yu. I. Iurutin, and A.P. Semenchenko. Studying the Physical Characteristics of a Boronium-moderator Reactor (Report No. 2160) 555
- Gaidam, A.D., S.A. Brusilovsky, A.P. Rudin, Yu. G. Abov, V.P. Belkin, and P.I. Krupchitsky. Critical Experiment on an Experimental Heavy-water Reactor (Report No. 2030) 570
- Marcenko, O.I., V.Ya. Pupko, Ye. I. Populina, V.V. Savelov, V.P. Tretter, S.T. Platonova, and G.I. Brusilina. Critical Problems in Nuclear Reactor Physics and Methods of Calculating Them (Report No. 2151) 580
- Semenov, G.V., and V.N. Semenov. Determination of Control Rod Effectiveness in a Cylindrical Reactor (Report No. 2469) 613
- Gal'fand, I.M., S.M. Pamyatov, A.S. Prolov, and M.M. Chernov. Using the Monte Carlo Method of Random Sampling for Solving the Schrödinger Equation (Report No. 2141) 628
- Leksin, N.I. Neutron Distribution in a Heterogeneous Medium (Report No. 2189) 634
- Kazanovskiy, M.V., A.V. Stepanov, and F.L. Shapiro. Neutron Thermalization and Diffusion in Heavy Media (Report No. 2148) 651
- Vernits, A.I., V.S. Yermakov, and A.V. Lykov. Using the Onager Theory for Studying Neutron Diffusion in the Absorbing Media of Nuclear Reactors (Report No. 2228) 668
- Sosulin, D.I., S.A. Bubulin, A.A. Buturov, V.V. Levin, and V.V. Orlove. Studying the Spatial and Energy Distribution of Neutrons in Different Media (Report No. 2117) 674
- Saltikov, A.B. Boron Ionization Chambers for Work in Nuclear Reactors (Report No. 2081) 690
- Sirilin, V.A., and S.I. Olyalin. Experimental Determination of Specific Volumes of Heavy Water in a Wide Temperature and Pressure Range (Report No. 2671) 696

SOV/89-6-5-7/33

21(9)

AUTHOR: Smelov, V. V.

TITLE: On an Approximation Method for the Homogenization of a Heterogeneous Reactor (O priblizhennom metode gomogenizatsii geterogenogo reaktora)

PERIODICAL: Atomnaya energiya, 1959, Vol 6, Nr 5, pp 546-555 (USSR)

ABSTRACT: It is shown theoretically that the problem of homogenization is closely linked to concrete functionals which, in each case, are connected with the problem at issue. The general principle of homogenization is described, for which purpose  $k_{eff}$  is used as functional. If the effective capture- and fission cross sections are formed by determining the average value from the spatial neutron spectrum in the infinite lattice, and if they are then used for calculating heterogeneous reactors, an error is obtained for  $k_{eff}$ , which is proportional to the Laplacian  $\chi^2$  of the reactor. If it is intended to increase accuracy by one order of magnitude, this entails loss of the "universality" of the effective parameters, i.e. they depend on reactor geometry. It is further shown that, when using universal parameters, it is, in principle, impos-

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SOV/89-6-5-7/33

On an Approximation Method for the Homogenization of a Heterogeneous Reactor

sible to calculate a unique effective diffusion coefficient. This is impossible also if neutron diffusion is assumed to occur only in one certain direction. Nevertheless, the formulas derived for the diffusion coefficient are as accurate as possible. The diffusion coefficient obtained by means of these formulas depends on the direction in the lattice. Plane, cylindrical, as well as spherical cells serve as examples for homogenization. G. I. Marchuk and V. V. Orlov took part in the investigation as advisers. There are 2 figures and 4 references, 3 of which are Soviet.

SUBMITTED: July 28, 1958

Card 2/2

SMELOV, V. V., Cand Phys-Math Sci -- (diss) "Numerical method of calculating the space-energetic spectra of thermal neutrons and an approximation method of homogenizing heterogenous reactors." Moscow, 1960. 11 pp; (Place of origin not given); 180 copies; price not given; bibliography on pp 10-11 (23 entries); (KL, 17-60, 140)

PLACE 1 BOOK EXPLOITATION SOV/535

Panasenkov, Ye. I., ed.

*Izoboronya kriticheskikh parametrov reaktorov s sistemami abnorm. stoyay (Study of Critical Parameters of Reactor Systems; Collection of Articles)* Moscow, Gostekhnizdat, 1950. 117 p. Errata slip inserted. 3,600 copies printed.

Tech. Ed.: N.A. Vlasova.

PURPOSE: This collection of articles is intended for nuclear physicists and engineers of nuclear power plants.

CONTENTS: The book contains previously unpublished original articles concerned with the theoretical calculation of neutron fluxes and of critical parameters (critical masses and volumes) of various reactor systems: uranium-beryllium, uranium-beryllium, and water mixtures of uranium and plutonium. Individual articles present tables and graphs used in the determination of the dependence of critical parameters on the relative concentration and the character of the fissionable material and the moderator, as well as on fuel enrichment for a wide range of neutron energy spectra. The following are mentioned: P.A. Gor'kun (scientific editor of the collection), and S.I. Solakov, L.M. Spakova, A.Ye. Ryazanov, R.P. Nosachina and V.S. Vladimirov (compilers of Table 1, table of values of coefficients  $k_1^D$  and  $\gamma$ ). References accompany individual articles.

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AVAILABLE: Library of Congress	
CARD 3/5	

2A/6mg/mw  
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3511  
S/058/62/000/004/023/160  
A058/A101

AUTHORS: Marchuk, G. I., Smelev, V. V.

TITLE: Multigroup method of calculating the spatial-and-energy distribution of thermal-neutron flux, and the application of perturbation theory

PERIODICAL: Referativnyy zhurnal, Fizika, no. 4, 1962, 57, abstract 4B425  
(V sb. "Neytron. fizika". Moscow, Gosatomizdat, 1961, 143 - 160)

TEXT: The spatial-and-energy distribution of thermal neutrons is determined in a  $P_1$  approximation with the aid of multigroup methods. The proposed method is not connected with a particular mechanism of neutron interaction with matter and allows of taking into account the thermal motion of moderator nuclei, as well as crystalline and molecular bonds. The authors give the initial formulae and the finite-difference diagram. Group constants are derived with the aid of conjugated equations. The difference system of the multigroup equations is solved by the matrix-factorization method. The authors give a method for deriving the formulae of perturbation theory. To illustrate the method, the

Card 1/2

24.600(2.1.6)(4416)  
26.2241

1001  
S/058/62/000/004/026/160  
A058/A101

AUTHORS: Marchuk, G. I., Smelev, V. V.

TITLE: On the calculation of the thermal utilization factor taking neutron thermalization into account

PERIODICAL: Referativnyy zhurnal, Fizika, no. 4, 1962, 59, abstract 4B444  
(V sb. "Neytron. fizika", Moscow, Gosatomizdat, 1961, 161 - 168)

TEXT: The present work deals in the main with taking nondiffusion into account in determination of the spatial-and-energy distribution of thermal neutrons, which is important at high absorption. Two approaches to the solution of this problem are examined: utilization of higher approximations in the method of spherical harmonics, and setting effective boundary conditions to the surface of the block, conditions that make diffusion theory more precise. By way of illustration of the first approach, the authors write down calculation formulae in a  $P_1$ -approximation on the example of a one-dimensional lattice; for the second approach, they use the earlier known improvement of boundary conditions for the single-velocity problem. They give the results of numerical calculation of the thermal utilization factor of a plane uranium-water lattice for three variants

Card 1/2

On the calculation of...

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differing in water-layer thickness. Examples are calculated in a two-group energy approximation and in  $P_1$  and  $P_3$  angular approximations. The scattering function is calculated on the gas model, using two of its moments. For purposes of comparison, the problem was also calculated in a one-group approximation.

O. Moskalev

[Abstracter's note: Complete translation]

Card 2/2

MARCHUK, G.I.; TURCHIN, V.F.; SMELOV, V.V.; ILYASOVA, G.A.

Methods for calculating the spectra of slow neutrons. Atom.energ.  
13 no.6:534-546 D '62. (MIRA 15:12)  
(Neutrons—Spectra)

ACCESSION NR: AP4006629

S/0089/63/015/006/0481/0485

AUTHORS: Glaskov, Yu. Yu.; Dubovskiy, B. G.; Ilyasova, G. A.;  
Kozlov, V. I.; Smelov, V. V.; Sharapov, V. N.

TITLE: Measuring slow-neutron spectra on a physical stand of the  
reactor at the Beloyarsk State Regional Power Plant imeni  
I. V. Kurchstov

SOURCE: Atomnaya energiya, v. 15, no. 0, 1963, 481-485

TOPIC TAGS: slow neutron, slow neutron spectrum, neutron flux  
distribution, neutron spectrum, neutron flux, energy spectrum,  
time of flight method

ABSTRACT: The flight time method has been used to measure the  
energy spectra of slow neutrons on the boundary between cells and  
on a hot channel surface. The lattice of the subcritical facility  
in which the measurements have been made is similar to the reactor  
lattice of the Beloyarsk atomic power plant. The facility under  
study, measuring 100 x 100 x 100 cm, was placed in the center of the  
stand-type uranium graphite reactor core. Channels containing 2%

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ACCESSION NR: AP4006629

enriched uranium were placed along the core perimeter, and the facility was filled with channels containing 1.2%-enriched uranium. The measurements were made for two different facilities, with and without water, in the central tubes and heat-releasing elements of the hot channels, and the spectra were measured by a mechanical selector. The time separation of the impulses took place in 128-channel analyzer, with each channel measuring 32 microseconds in width. A chamber made of stainless steel LX18H9T and filled with He<sup>3</sup> to a pressure of 18 Atms was used as a neutron detector. The energy distribution of the neutron flux found by processing the experimental data are shown in the enclosure, Fig. 3. The experimental spectra were compared with the rated spectra on the outer boundary of the cell and the spectra on the boundary between the graphite and uranium zones. The rated values were "cross linked" with the experimental ones in the moderation region on the boundary between the cells. The comparison thus included both the energy and spatial distribution, and the results appear to agree with the experimental data.

Card 2/57

ACCESSION NR: AP4006629

"The authors express their gratitude to L. A. Matalin for the development and construction of the time analyzer, to P. S. Klemashev for designing the mechanical interrupter, and to V. V. Orlov and A. G. Novikov for their useful comments."

Orig. art. has: 3 Figures and 3 Formulas

SUBMITTED: 27Apr63

DATE ACQ: 07Jan64

ENCL: 02

SUB CODE: NS

NR REF SOV: 005

OTHER: 002

ASSOCIATION: none

Card 3/5

SMELOV, Ye.P.; CHIKHAREN, N.I., kand. tekhn. nauk

Operation of boring machinery in winter. Transl. strct: 15  
no. 11:29-30 N '65. (MIRA 19:10)

I. Glavnyy inzhener Srednezzistskogo upravleniya mekhanizatsii  
(for Smelov).

ACC NR: AP6019635

(A,N)

SOURCE CODE: UR/0048/66/030/002/0371/0377

76

AUTHOR: Afanas'yev, N.G. Startsev, V.I.; Smolov, Ye.K.; Kuplenrikov, E.L.;  
Stepula, Ye.V.; Petrenko, V.V.; Fursov, G.L.

74

B

ORG: none

TITLE: Investigation of elastic scattering of 70 MeV electrons on C-12 and Be-9 and  
the mean square radii of those nuclei /Report, Fifteenth Annual Conference on Nuclear  
Spectroscopy and Nuclear Structure, held at Minsk, 25 January to 2 February 1965/

SOURCE: AN SSSR. Izvestiya Seriya fizicheskaya, v. 30, no. 2, 1966, 371-377

TOPIC TAGS: electron scattering, elastic scattering, form factor, nuclear radius,  
beryllium, carbonABSTRACT: The authors have measured the elastic scattering cross sections of C<sup>12</sup> and  
Be<sup>9</sup> for 70 MeV electrons at different scattering angles between 30 and 150° in order  
to evaluate the root-mean square radii of the nuclei. The 70 MeV electron energy was  
chosen for the measurements because at that energy the momentum transfers are high  
enough to permit determining the momentum transfer dependence of the form factor, and  
yet low enough to allow of neglecting higher powers than the second (of the momentum  
transfer) in the expression for the form factor. The electron beam was produced by  
a pulsed accelerator. The primary beam intensity was measured with a secondary  
emission monitor which was calibrated with a Faraday cup. The electrons that were

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GIVIN, I.A.; KOKLYASH, I.M.; SMOLOVA, D.F.

Influence of grain size on the effect of iron hardening during  
programmed loading. Fiz. met. i metalloved. 19 no.4:627-629  
(MIRA 1F:5)  
Ap '65.

I. Fiziko-tehnicheskiy institut AN UkrSSR.

SMELOVA, I.V.

Distribution of S<sup>35</sup> introduced with live feeds in the fish body.  
Vop. ikht. no.17:110-114 '61. (MIRA 14:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut morskogo rybnogo  
khozyaystva i okeanografii (VNIRO).  
(Fishes—Physiology) (Sulfur metabolism)

SIMONEAU, E.V.  
SIMONEAU, E.V.

Penetration of different  $^{35}\text{S}$  compounds from water into the fish body. Trudy VNU 44:37-47 '61. (C.I. 14:11)  
(Sulfur--Isotopes)  
(Fishes--Physiology)  
(Absorption(physiology))

SMELOVA, I.V.

In the Section for the Increase of the Productivity of the  
Biosphere. Zool.zhur. 41 no.8:1277-1278 Af '62. (MIRA 15:9)  
(Conservation of natural resources)

KONYUKOV, Pavel Mikhaylovich; SMELOVA, Nipa Alekseyevna; EFROS, Boris Yefimovich; ASTASHOV, A.G., retsenzent; KOPELEVICH, Ye.I., red.; SELEZNEVA, T.V., tekhn.red.

[Atlas of cotton spinning machinery] Atlas mashin khlopkopriadiil'nogo proizvodstva. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po legkoi promyshl., 1957. 340 p.  
(Cotton spinning) (MIRA 11:3)

BORZUNOV, I.G.; SMELOVA, N.A.; KOPYTOV, R.F.

Redesigning the draw box of a high-draft slubber for two-zone high drafting. Izv.vys.ucheb.zav.; tekhn.tekst.prom. no.6:88-91 '60.  
(MIA 14:1)

1. Moskovskiy tekstil'nyy institut.  
(Spinning machinery)

POIARKOV, A.S.; VLADIMIROV, B.M., retsenzent; SMELOVA, N.A., retsenzent;  
AKSENOVA, I.I., red.; SHAPENKOVA, T.A., tekhn. red.

[General technology of asbestos fiber spinning] Obshchaia tekhnologija priadenija asbestovogo volokna. Moskva, Izd-vo nauchno-tekhn. lit-ry RSFSR, 1961. 256 p. (MIRA 15:3)  
(Asbestos) (Spinning)

BALYASOV, P.D.; BUDNIKOV, V.I., prof.; VANCHIKOV, A.N.; VLADIMIROV,  
B.M.; KISELEV, A.K.; KONYUKOV, P.M.; RAKOV, A.P., prof.;  
SMELOVA, N.A.; EFROS, B.Ye.; ZCTIKOV, V.Ye., retsenzent;  
BELITSIN, N.M., retsenzent; KOSTIN, P.V., retsenzent;  
TERYUSHNOV, A.V., prof., red.; SOKOLOVA, V.Ye., red.;  
BATYREVA, G.G., tekhn. red.

[Cotton spinning] Priadenie khlopka. [By] P.D.Baliasov i  
dr. Moskva, Rostekhizdat. Pt.1. 1962. 433 p.  
(MIRA 16:9)

(Cotton spinning)

BALYASOV, Pavel Dmitriyevich; KONYUKOV, Pavel Mikhaylovich; SMELOVA,  
Nina Alekseyevna; EFROS, Boris Yefimovich; ZOTIKOV, V.Ye.,  
prof., retsenzent; BARABANOV, L.G., retsenzent; KOPELEVICH,  
Ye.I., red.; VINOGRADOVA, G.A., tekhn. red.

[Laboratory manual on cotton spinning] Laboratornyi praktikum  
po priadeniiu khlopka. Izd.2., perer. i dop. Moskva, Izd-vo  
nauchno-tekhn.lit-ry RSFSR "Kostekhizdat," 1962. 491 p.  
(MIRA 15:9)

(Cotton spinning) (Cotton machinery)

BALYASOV, P.D.; BUDNIKOV, V.I., prof.; VANCHIKOV, A.N.; VLADIMIROV,  
B.M.; KISELEV, A.K.; KONYUKOV, P.M.; RAKOV, A.P.; SMELOVA,  
N.A.; EFROS, B.Ye.; ZOTIKOV, V.Ye., retsenzent; HELITSIN, N.M.,  
retsenzent; KOSTIN, B.V., retsenzent; TERYUSHNOV, A.V., prof.,  
red.; SOKOLOVA, V.Ye., red.; BATYREVA, G.G., tekhn. red.

[Cotton spinning] Priadenie khlopka. [By] P.D.Baliasov i dr.  
Pod red. V.I.Budnikova, A.P.Rakova, A.V.Teriushnova. Moskva,  
Rostekhizdat. Pt.2. 1963. 395 p. (MIRA 16:6)  
(Cotton spinning)

ARKHANGEL'SKAYA, M.P., kandidat tekhnicheskikh nauk; NOVIKOVA, S.A.,  
inzhener; SMELOVA, P.I., inzhener.

Speed method of determining irregularities in dyeing viscose  
rayon. Tekst.prom. 15 no.11:40-41 N '55. (MLRA 9:1)

(Dyes and dyeing--Rayon)

PETROVA, T.k., kand.med.nauk; SMELOVA, V.L.

Isolanide treatment of chronic circulatory insufficiency. Vrach.  
(MIRA 15:1)  
delo no.6:147-148 Je '61.

1. Gospit' naya terapeuticheskaya klinika (zaveduhushchiy - dotsent  
V.Ye.Bogdanov) Kubanskogo meditsinskogo instituta.  
(BLOOD CIRCULATION, DISORDERS OF) (GLYCOSIDE)

SMELOVA, V.L.

Case of pheochromoblastoma with multiple metastases. Vrach. delo  
no.9:135-136 S '61. (MIRA 14:12)

1. Mediko-sanitarnaya chast' maslozhirkombinata, Krasnodar.  
(ADRENAL GLANDS--CANCER) (METASTASIS)

SMELOVA, V.L. (Krasnodar)

Sjogren's syndrome. Vrach. delo no.10:126-127 O '63.  
(MIRA 17:2)

Chemical composition of by-products from medium fat cattle. N. V. Shirokov, Z. A. Smelova, and O. P. Sicheguleva. *Trudy Vsesoyus. Nauch. Tiltitovatel. Inst. Myasnoj Prom.* 1955, No. 5, 84-90; *Referat. Zhur., Khim.* 1955, No. 6763.—P, Ca, Mg, Fe, H<sub>2</sub>O, ash, lipides including fats, proteinaceous substances (total and particularly collagen and elastine), and extractable and other substances were detd. in tongue, kidneys, brain, heart, liver, lips, udder, lungs, ears, head, and tail of cattle. The total caloric value of by-products was calc'd. P was detd. particularly in proteins, lipides, extractive substances, and inorg. phosphates. In addn. were detd. tyrosine, tryptophan, and cystine. The analytical methods are described.

M. Hoseh

*met 3*

SMELOVA, Z. A.

*Meel ✓* Preservation of adrenal glands in small abattoirs.  
N. V. Shirokov and Z. A. Smelova. *Trudy Vsesoyuz. Nauch.-Issledovatel. Inst. Mysnot Pravit. 1953, No. 5, 147-61; Referat. Zhur., Khim. 1955, No. 6772.* —Comminated

adrenal glands were preserved in a mixt. of NaCl and oxalic acid. The ratio of oxalic acid to NaCl varied from 7.4:93.6 to 21.7:78.3 and the pH was 2.5-4.0. The preserved product was kept in glass, in the dark, covered with paraffin, and on top with fat. After thus storing the mass for 4 months at 25° there was an insignificant drop in the quantity of adrenaline. The extn. of adrenaline and its subsequent purification are described.

M. Hoseh

SHIROKOV, N.V., kandidat khimicheskikh nauk; SINITSYN, K.D., inzhener;  
TSIBANOVA, V.D., inzhener; KRYLOVA, V.V., inzhener; SMELOVA, Z.A.

Continuous mechanized method for the production of sausage casings  
from paper. Trudy VNIIMS no.6:5-9 '54. (MLRA 10:8)  
(Sausage casings)

SOLOV'YEV, V.I., kand.khimicheskikh nauk; SMELOVA, Z.A., mladshiy  
nauchnyy sotrudnik

Taste and flavor of food protein hydrolyzates. Trudy VNIIMP  
no.9:95-103 '59. (MIRA 13:8)  
(Food--Analysis) (Proteins)

SMELOVSKAYA, M.M.; ZHURAVLEVA, L.A., direktor.

Five cases of paralysis of the diaphragm in children. Probl.tub. no.3:  
(MLRA 6:?)  
8/4-85 My-Je '53.

1. Sanatori Mosoblzdravotdela "Krasnaya Rosa". (Diaphragm) (Paralysis)

LITVINOVICH, N.V.; SMOLOVSKAYA, M.M.

Age of limestones outcropping in Kur'ya region (northwestern Altai).  
Izv. vys. ucheb. zav.; geol. i razv. 3 no.7:48-52 J1 '60.  
(MIRA 13:9)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.  
(Altai Kyr'ra region mountains--Limestone)

LITVINOVICH, N.V.; SMELOVSKAYA, M.M.

Silurian sediments in the Tarbagatay Range. Vest. Mosk. un. Ser.  
4: Geol. 16 no. 2: 8-20 Mr-Ap '61. (MIRA 14:4)

1. Kafedra istoricheskoy i regional'noy geologii Moskovskogo  
universiteta.  
(Tarbagatay Range—Geology, Stratigraphic)

ZHUKOV, N., inzh.; SMELOVSKAYA, V., inzh.

Equipment on ships for rescue at sea. Mar. flot 20 no.9:41-42 S '60.  
(MIRA 13:9)

(Great Britain--Life saving apparatus)

SMELOVSKIY, A.S.

Scotometric test with different contrasts in early diagnosis of glaucoma. Vest.oft. 69 no.5:37-38 S-0 '56. (MLRA 9:12)

1. Iz Tonshayevskoy rayonnoy bol'nisyy Gor'kovskoy oblasti (nauchnyy rukovoditel' - glavnyy oftalmolog oblasti prof. B.V.Protopopov) (GLAUCOMA)

SMELOVSKIY, A. S., Cand Med Sci -- (diss) "Comparative Estimation  
of the Effectiveness of Early Diagnosis of Glaucoma." Gor'kiy,  
1957. 11 pp (Gor'kiy State Med Inst im S. M. Kirov), 200 copies  
(KL, 51-57, 94)

- 36 -

SMELOVSKIY, A.S.

Early diagnosis of glaucoma [with summary in English]. Vest. oft. 71  
no. 4:14-17 Jl-Ag '58 (MIRA 11:8)

1. Kafedra glaznykh bolezney (zav. - prof. B.V. Protopopov) Gor'kovskogo  
meditsinskogo instituta.  
(GLAUCOMA, diag.  
combined methods in early diag. (Rus))

SMELOVSKIY A.S.

New method for the prevention of explosive hemorrhage.  
Vest. oft. 74 no.2:21-24 '61. (MIRA 14:4)  
(CATARACT) (HEMORRHAGE)

SMELOVSKIY, A.S., dotsent

Intracapsular vacuum extraction of senile cataract. Vest.oft.  
(MIRA 15:12)  
no.5:70-73 '62.

1. Kafedra glaznykh bolezney Chitinskogo meditsinskogo instituta  
(rektor - dotsent Yu.D.Ryzhkov).  
(CATARACT)

SMELOVSKIY, A.S., dotsent

Expulsive hemorrhage following a spontaneous rupture of the cornea.  
Trudy KGMU no.10:386-389 '63. (MIRA 18:1)

1. Iz kafedry glaznykh bolezney (zav. kafedroy - dotsent A.S. Smelovskiy) Kalininskogo gosudarstvennogo meditsinskogo instituta.

SMELOVSKIY, N.V.; GALKIN, M.Ye.

Experience of the First State Bearing Plant in introducing  
spring measuring heads. Izm. tekhn. no. 1:10-11 Ja '61.  
(MIRA 14:1)

(Measuring instruments)

SMELOVSKIY, S.I.

Case of human rabies with an incubation period of 2 years and 7 months following the bite of a rabid wolf. Vest.khir.Grekova  
70 no.5:39-40 1950. (CLML 20:5)

1."Of the Surgical Division of Sterlitamak Municipal Hospital of Bashkir ASSR (Head Physician--T.K.Mosunova; Head of Surgical Division -- S.I.Smelovskiy).

SMELOVSKII, S. I., VISHNEVSKIY, A. A. with cooperation of VALANKIN, N. K., KUDAVIGEVA,  
A. M., PERCHIKOVA, N. Ye. AND SAVCHENKOV, I. I.

"Surgical Treatment of Mitral Stenosis Under Local Anesthesia," *Klin. Med.*,  
Vol.33, No.2, 1955.

Comments K-3546, 13 Jul 55.

SMELOVSKIY, S.I.; DABINYAN, T.M.; KRYMSKIY, L.D.

Method of suturing the stump of the left auricular appendix during  
commissurotomy [with summary in English]. Eksper.khir. 2 no.3:22-26  
(MIRA 10:10)  
My-Je '57.

1. Iz Instituta khirurgii imeni A.V.Vishnevskogo (dir. - deyatel'nyy chlen AMN SSSR prof. A.A.Vishnevskiy) AMN SSSR.  
(COMMISSUROTCMY  
suturing left auric. appendix stump, method)

VISHNEVSKIY, A.A., prof.; SMOLOVSKIY, S.I., starshiy nauchnyy sotrudnik;  
SHISHKIN, V.P., nauchnyy sotrudnik

Surgical treatment of adhesive pericarditis. Nov.khir.arkh. no.5:  
57-64 S-O '57. (MIRA 10:12)

1. Institut khirurgii im. A.V.Vishnevskogo AMN SSSR. Adres avtora:  
Moskva, ul. Novoslobodskaya, d. 57/65, kv. 31.  
(PERICARDIUM—SURGERY)

Smelevskiy, S. I.

KRYMSKIY, L.D., kandidat meditsinskikh nauk; SMELOVSKIY, S.I., kandidat meditsinskikh nauk

Morphological changes in the heart following commissurotomy [with summary in English]. Khirurgija 33 no.4:46-54 Ap '57. (MLRA 10:8)

1. Iz Instituta khirurgii imeni A.V.Vishnevskogo (dir. - chlen-korrespondent AMN SSSR prof. A.A.Vishnevskiy) AMN SSSR.  
(HEART, pathol.  
changes after commissurotomy)

KRYMSKIY, L.D., kand. med. nauk.; SMELOVSKIY, S.I., kand. med. nauk.

Some complications following heart surgery. Sov. med. 22 no. 12:12-15  
D '58. (MIRA 12:1)

1. Iz 1-go khirurgicheskogo otdeleniya (zav. - prof. N. I. Krakowskij)  
Instituta khirurgii imeni A.V. Vishnevskogo Akademii meditsinskikh nauk  
SSSR (dir. - deyствител'nyy chlen Akademii meditsinskikh nauk SSSR  
prof. A. A. Vishnevskiy).

(COMMISSUROTONY, compl.

fibrous pericarditis (Rus))

(PERICARDITES, etiol. & pathogen.

fibrous, after commissurotomy (Rus))

SMELOVSKIY, S.I., DARBINYAN, T.M., PANOV, Yu.M.

Treatment and prevention of acute cardiovascular insufficiency  
during commissurotomy [with summary in English]. *Khirurgija* 34  
no.8:21-26 Ag '58 (MIRA 11:9)

1. Iz I otdeleniya (zav. - prof. N.I. Krakovskiy) Instituta  
khirurgii imeni A.V. Vishnevskogo (dir. - deystvitel'nyy  
chlen AMN SSSR, saslyzhenyy deyatel' nauki prof. A.A. Vishnevskiy)  
AMN SSSR.  
(MITRAL VALVE--SURGERY)

SERGEYEV, K.A.; SMELOVSKIY, S.I.

Judging the effectiveness of commissurotomy by plethysmography. Msksp.khir. 4 no.3:12-16 My-Je '59. (MIRA 12:8)

1. Iz Instituta khirurgii imeni A.V.Vishnevskogo (dir. - deystvitel'nyy chlen AN SSSR prof.A.A.Vishnevskiy) AMN SSSR.

(COMMISSUROTOMY

plethysmography in assessment of results  
(Rus))

(PLETHYSMOGRAPHY, in various dis.

in mitral stenosis surg. in assessment of  
results (Rus))

VISHNEVSKIY, A.A., prof.; TSUKERMAN, B.M., kand.biol.nauk; SMELOVSKIY, S.I.,  
kand.med.nauk (Moskva)

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(MIRA 12:11)

1. Iz Instituta khirurgii imeni A.V.Vishnevskogo AMN SSSR  
(dir. - deystvitel'nyy chlen AMN SSSR prof.A.A.Vishnevskiy).  
(AURICULAR FIBRILLATION, therapy)  
(MITRAL STENOSIS, complications)

SMELOVSKIY, S.I.; SAVCHENKO, T.M.

Commissurotomy in mitral stenosis. Kaz.med.shur. 40 no.5:  
69-71 S-0 '59. (MIRA 13:?)

1. Iz Instituta khirurgii imeni A.V. Vishnevskogo AMN SSSR  
(direktor - deyatel'nyy chlen AMN SSSR, prof. A.A. Vish-  
nevskiy).

(MITRAL VALVE--SURGERY)

SMMLOVSKIY, S.I., kand.med.nauk; BURMENKO, Ye.G., kand.med.nauk

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1. Iz instituta khirurgii im. A.V. Vishnevskogo AMN SSSR (direktor -  
deyatvitel'nyy chlen AMN SSSR, prof. A.A. Vishnevskiy, zav. 1-m  
khirurgicheskim otdeleniyem prof. N.I. Krakovskiy).  
(RHEUMATIC FEVER) (MITRAL VALVE--SURGERY)

SHISHKIN, V.P., kand.med.nauk; SMELOVSKIY, S.I., kand.med.nauk

Surgical treatment of constrictive pericarditis. Vest.khir. 85  
no.10s47-54 0 '60. (MIRA 13:12)

1. Is 1-go khirurgicheskogo otdeleniya (sav. - prof. N.I.  
Krakovskiy) Instituta khirurgii im. A.V. Vishnevskogo (dir. -  
A.A. Vishnevskiy) AMN SSSR.  
(PERICARDITIS)

BURMENKO, Ye. G.; SMELOVSKIY, S. I.; VOROPAYEV, M. M.; MAZAYEV, P. N.;  
VOLYNSKIY, Yu. D.

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'62. (MIRA 15:7)

1. Iz Instituta khirurgii imeni A. V. Vishnevskogo (dir. -  
deystvitel'nyy chlen AMN SSSR prof. A. A. Vishnevskiy) AMN SSSR.

(MITRAL VALVE--DISEASES) (ANGIOGRAPHY)  
(LUNGS--RADIOGRAPHY)

SMELOVSKIY, S.I.; DARBINIAN, T.M.; KRYMSKIY, L.D.

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1. Iz Instituta khirurgii imeni Vishnevskogo (dir.- deystvitel'nyy chlen AMN SSSR prof. A.A. Vishnevskiy) AMN SSSR.

SMELOVSKIY, S.I. (Moskva)

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SMELOVSKIY, S.I.

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SMELOVSKIY, V.P., dotsent (Kuybyshev)

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SMELOVSKIY V.P., dots.

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1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. S.L. Libov) Kuybyshevskogo meditsinskogo instituta.  
(GENITALIA, FEMALE, abscess,  
intracytic perf. (Rus))  
(BLADDER, perf.  
by female genital abscesses (Rus))

SMELOVSKIY, V.P., dotsent; KHITOVA, A.G., assistant

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1. Iz kafedry gospital'noy khirurgii, zaveduyushchiy kafedroy prof.  
A.M. Aminev i iz kafedry fakul'tetskoy khirurgii, zaveduyushchiy  
kafedroy prof. S.L. Libov.  
(HEMORRHOIDS) (BLADDER--DISEASES)